

ABSTRACT OF THE DISCLOSURE

The invention relates to a thermosetting resin composition including a radically curable resin mixture of:

- a) 50-100 parts by weight of a radically curable resin that also contains a free monomer capable of copolymerising with it;
- b) 0-50 parts by weight of a shrink-resistant compound that can also contain an amount of copolymerisable free monomer, the total of (a) and (b) adding up to 100, and

2D-randomly distributed, discontinuous carbon fibres obtained by chopping split, continuous carbon fibre bundles to form packages of carbon filaments, which carbon bundles are provided with a sizing that is at least partially chemically bonded thereto, and with a binder whose solubility at room temperature in the copolymerisable free monomer present in the radically curable resin mixture amounts to at least 10% by weight, the weight percentage of carbon fibres relative to the resin composition being between 5 and 65% by weight, and optionally a filler also being present. The invention also relates to a process for the preparation of a thermosetting resin composition, as well as processes for the manufacture of 3D-moulded articles therefrom and to 3D-moulded articles themselves.